Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A converter for converting an OTDM type optical signal into a WDM type optical signal, the WDM type optical signal being an optical signal comprising a plurality of wavelength-division multiplexed optical signals, each transmitted at an associated wavelength, characterized in that it comprises a plurality of devices connected in parallel for temporally subsampling the OTDM type optical signal at a predetermined subsampling frequency, each temporal subsampling device comprising:

a generator for generating clock pulses transmitted at the predetermined subsampling frequency and at a conversion wavelength specific to the subsampling device and corresponding to the wavelength associated with an optical signal among said plurality of wavelength-division multiplexed optical signals, and

a wavelength converter device adapted to receive at its input the OTDM type optical signal and the clock pulses at the conversion wavelength specific to the subsampling device in order to supply at its output a subsampled signal of the optical signal at the conversion wavelength, the converter device comprising:

a linear optical amplifier adapted to receive the OTDM type optical signal and the clock pulses propagating in the opposite direction, the maximum linear power of the amplifier being adjusted so that it can be less than the peak power of the OTDM type optical signal, and

a phase modulation to amplitude modulation converter.

2. (Previously Presented) A converter according to claim 1 for converting an OTDM type optical signal into a WDM type optical signal, wherein the phase modulation to

amplitude modulation converter comprises a delayed differential Mach-Zehnder interferometer.

3. (Previously Presented) A converter according to claim 1 for converting an OTDM type optical signal into a WDM type optical signal, comprising a circulator between the amplifier and the modulation converter in order to direct the OTDM optical signal to the amplifier and the output signal of the amplifier to the modulation converter.

4-7. (Canceled)

8. (Previously Presented) A converter according to claim 2 for converting an OTDM type optical signal into a WDM type optical signal, comprising a circulator between the amplifier and the modulation converter in order to direct the OTDM optical signal to the amplifier and the output signal of the amplifier to the modulation converter.

9-12. (Canceled)

13. (Previously Presented) A converter according to claim 1, wherein a pulse generator of the plurality of generators is offset relative to another generator of the plurality of generators by an amount of time corresponding to a frequency of the OTDM type optical signal.

14-18. (Canceled)